R-1 Remote Manual

Version 2.0
Part# 840-06268-02 rev B
Publish date: Jan 2001

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TABLE OF CONTENTS

R-1 REMOTE 3
Overview 3
Purpose 3
Features 3
Applications 3
Physical Specifications 5
Dimensions - Remote 5
Top View 5
Dimensions – Stand 5
Dimensions – Stand 6
Rear Panel Connectors – Remote Head 6
Rear Panel Connectors – Remote Head 7
Rear Panel Connectors – Stand Base 7
Rear Panel Connectors – Stand Base 8
Technical Specifications 9
Power Requirements 9
Environmental Requirements 9
User Reference 10
RS-422 to RS-232 Converter 10
KVM Extender Hookup Instructions 11
KVM Extender Hookup Diagram 12
Stand Height and Angle Adjustments 13
Power On Sequence 14
Special Setup Precaution 14

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R-1 REMOTE

Overview

Purpose

The R-1 Remote is the dedicated control unit for the R-1 Multitrack Recorder. The layout of the Remote is designed to feel familiar to experienced multitrack operators, yet provide access to additional functionality that is exclusive to R-1 operation, such as Editing and File Management.

In addition to providing control of nearly all R-1 functions, the Remote also displays status information to the operator, such that the operator can read the system status with a glance. The Remote uses a lighting scheme that is designed to function optimally in the subdued lighting that is common to most professional audio production facilities.

The Remote is connected to the Pilot computer via RS-422. The RS-422 signal from the Remote is distributed by the Pilot computer to the Studio Hub and Audio Deck via the IEEE1394 connections.

Features

The Remote is organized into sections that group keys of related functionality together on the worksurface.

Locator - The dark gray rectangle in the lower right quadrant of the Remote contains only keys and controls that would be found on a standard locator.

Track Management – This section allows management of Track status individually or in groups as designated by the operator.

Editing – In addition to the more familiar tape machine like functions, R-1 makes use of the power of disk based editing. This allows many functions to be performed within R-1 that previously required laying off to other systems.

File Management – A section is dedicated to File Management so most of these functions can also be done from the familiar interface of the Remote.

Applications

The Remote is designed to accommodate a variety of mounting options. With available mounting hardware, the Remote can be rack mounted in a 5RU space. The Remote is also avaiable with a dedicated stand that features a monitor shelf and a slide out tray for keyboard and Trackball. The Remote stand combines all of the R-1 control interfaces into one compact integrated unit that can be moved easily on its mounted wheels.

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There are 2 RS-422 connectors on the back of each Remote, allowing daisy chaining in installations where up to three Remotes per R-1 are desirable. This feature is intended to support use of a second Remote from, e.g., a machine room, as opposed to configuration for R-1 control by multiple operators at multiple control stations. In multiple Remote configurations, each connected Remote is continuously active. Multiple instances of video monitors, keyboard and mouse are not now supported.

The stand mounted R-1 remote ships from the factory with a 1meter (33 feet) snake that includes the Remote RS-422 cable, video monitor cable, keyboard, and Trackball cables. If the Remote needs to be located further from the R-1 rack mount components, an extender package is avaiable that allows location of the Remote to distances up to 100 meters (328 feet) the rack mount units. The extender consists of small Transmitter and Receiver modules that are connected via a thin RJ45 cable which carries the signals of the video monitor, RS-422, keyboard, and Trackball between the modules.

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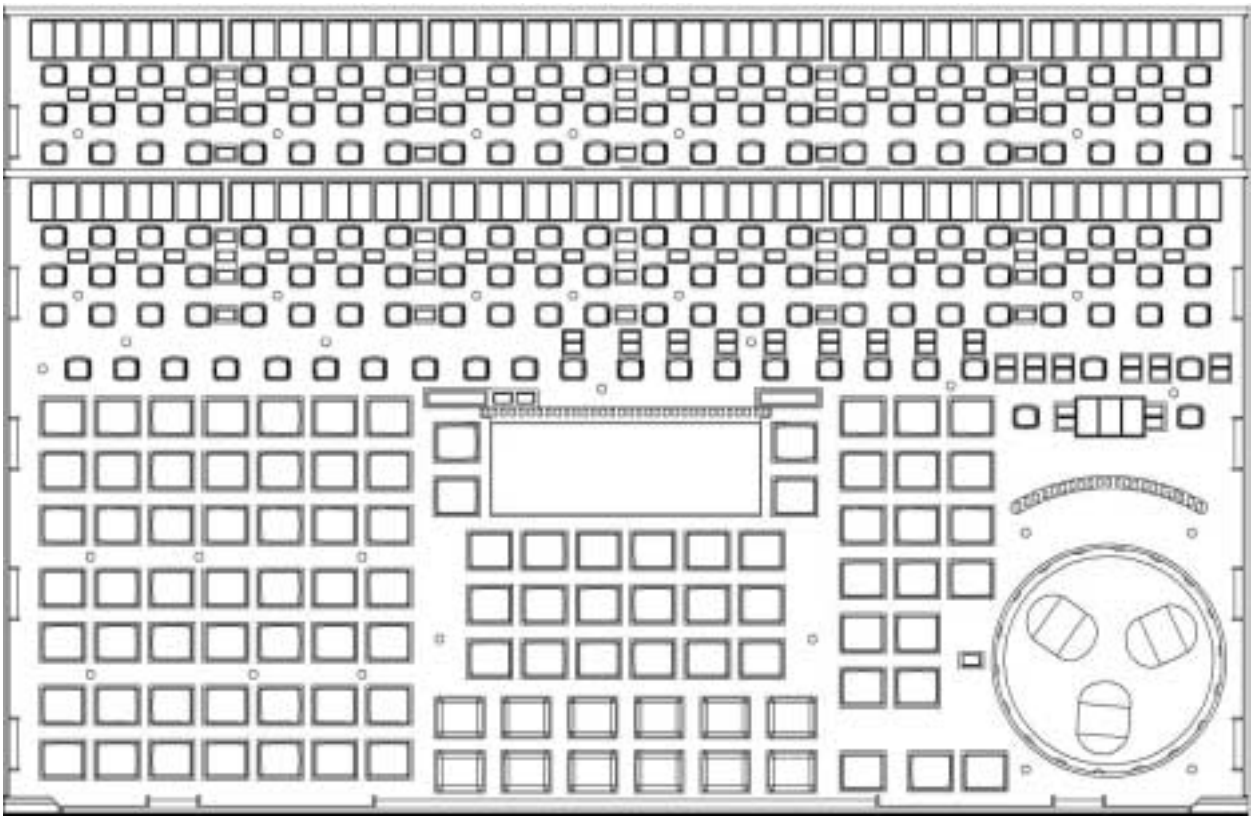
Physical Specifications

Dimensions - Remote

Height: 8.6 inches
Width: 16.5 inches
Depth: 2.5 inches including power supply, 1.6 inches case only
Weight: 7 lbs



Top View

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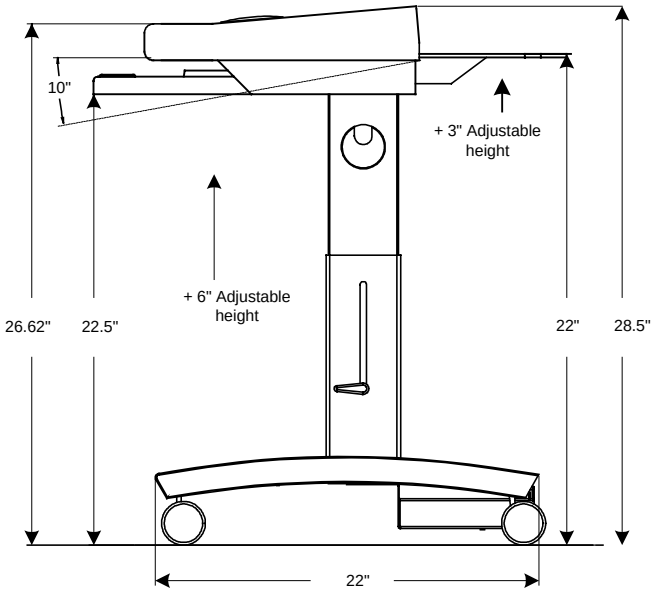
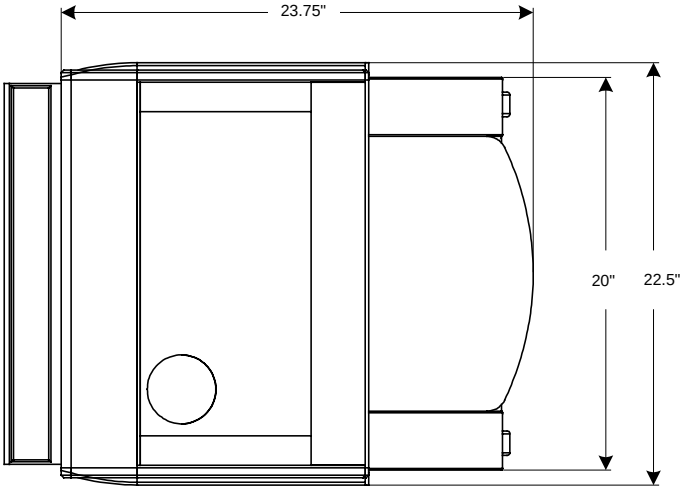
Dimensions – Stand

Height: 30.7"-36.7" adjustable
Width: 21.5 inches
Depth: 24”
Weight: 60 lbs with cables





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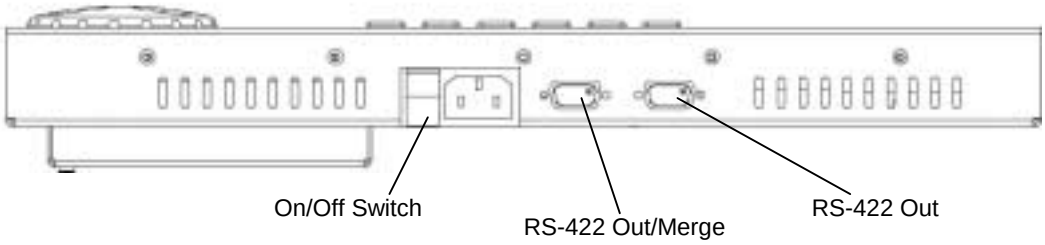
Rear Panel Connectors – Remote Head



RS-422 Out (9 pin Dsub) The output of this connector is fed to the Pilot computer.

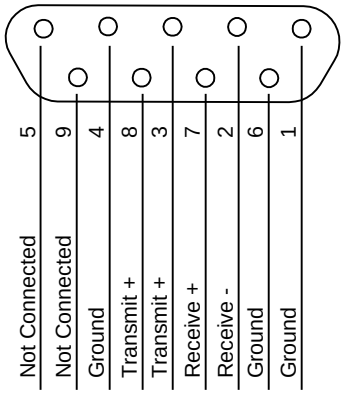
RS-422 Out/Merge (9 pin Dsub) This connector is used to link 2 or more Remotes together for control of an R-1 from different stations.

Power Connector (IEC) The IEC power connector accepts standard IEC power cords. A switching power supplied is used so voltages from 110volts to 240 volts, 50 or 60 cycle, can be input.

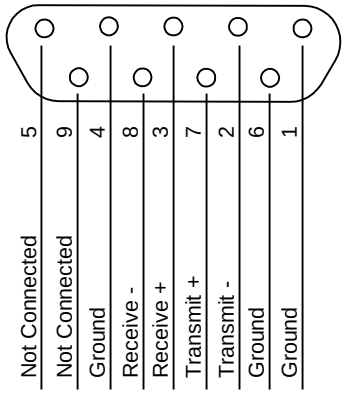
On/Off Power Switch Rocker switch is accessible through hinged door if Remote is stand mounted.

RS-422 Connector Pin Out Diagram

RS-422 Out/Merge



RS-422 Out



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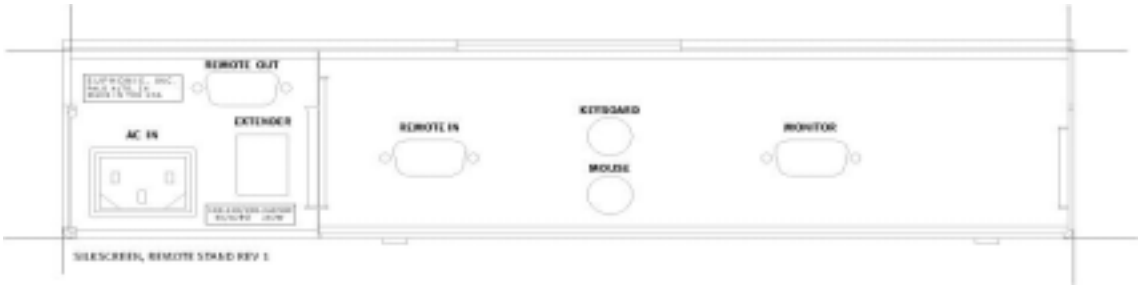
Rear Panel Connectors – Stand Base



Monitor (15 pin Dsub) The video monitor connection from the Pilot computer is made at this port.

Keyboard (PS2) The keyboard connection from the Pilot computer is made at this port.

Mouse (PS2)The Trackball connection from the Pilot computer is made at this port.

Remote In (15 pin Dsub) The Remote connection from the Pilot computer Remote connector is made at this port.

Remote Out (15 pin Dsub) This connector is used to link 2 or more Remotes together for control of an R-1 from different stations.

Extender (RJ45) If a KVM Extender package is mounted beneath the Remote base in the wire tray, this connector carries the RS-422, Video, Trackball and keyboard signals to the KVM Extender transmitter.

Power Connector (IEC) The IEC power connector accepts standard IEC power cords. A switching power supplied is used so voltages from 110volts to 240 volts, 50 or 60 cycle, can be input.

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Technical Specifications

Power Requirements

110, 220, or 240 VAC at 50 or 60 Hz

Environmental Requirements

5 to 35 degree Centigrade

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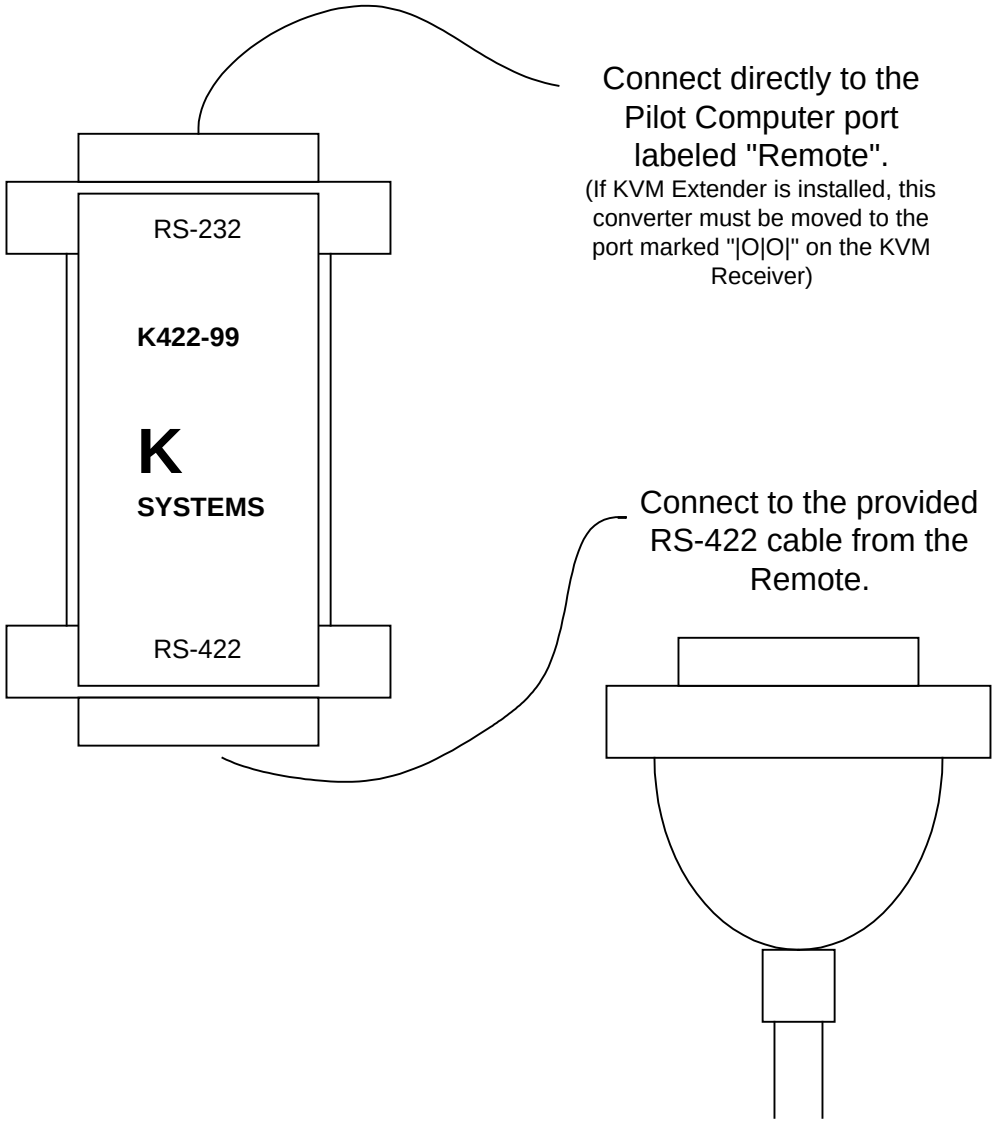
User Reference

RS-422 to RS-232 Converter


Connect directly to the Pilot Computer port labeled "Remote".
(If KVM Extender is installed, this converter must be moved to the port marked "|O|O|" on the KVM Receiver)
RS-232
K422-99
K
SYSTEMS
RS-422
Connect to the provided RS-422 cable from the Remote.

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KVM Extender Hookup Instructions

TOOLS REQUIRED: ¼" Allen Hex Wrench

PROCEDURE:

Cabling at Remote Stand

- Route the following cables through the center post of the Remote stand. Note, some of these may already be installed as part of the standard remote stand. Remove any cables that do not appear on this list.

  a) Video Cable, 5 ft.
  b) RS422 Cable, 5ft.
  c) IEC "Y" Jumper Cable M/2F, 6ft.
  d) Trackball, p/s 2
  e) Mini Keyboard, p/s 2

- At the bottom of the stand, attach cables to the Extender Receiver Unit (820-06701-00) and the cable tray as shown in page 1 of the installation diagram.

Note that the RS232/422 adapter has been relocated from the rear of the Pilot PC to the serial port on the Extender Receiver as shown.

Cabling at Pilot PC

- Install the cables for the Transmitter Unit of the Extender (820-6701-00) according to the instructions included with the Extender. Note that a wall transformer is included and need only be used on the transmitter side of the extender.
- Locate the Transmitter Unit of the extender in a secure location.

Installation of Cable Tray

- Attach one end of the 1ft CAT5 cable (0320-6659-00) to the Receiver Unit of the Extender and the other end to the CAT5 F/F bulkhead connector.
- Using the supplied 3M Recloseable Fastener strip (000-06909-00), secure the Receiver Unit of the Extender to the cable tray as shown in page 1 of the installation diagram.
- Bundle the excess length of the remote stand cabling behind the Receiver Unit and attach the cable tray to the bottom of the remote stand using the two ¼" socket head cap screws which secure the center post at the bottom of the stand. Tighten securely, making sure that no cables are pinched and that no cabling sticks out of the cable tray, interfering with the casters.
- Attach 032-06758-00, 20m CAT5 extension cable, to both the receiver and transmitter units of the extender. The green indicator light should turn on both units when the transmitter is plugged in and the CAT5 connection is made.
- Start up the R1 system and verify that all signals are working properly, including the keyboard, mouse/trackball, video, and remote.

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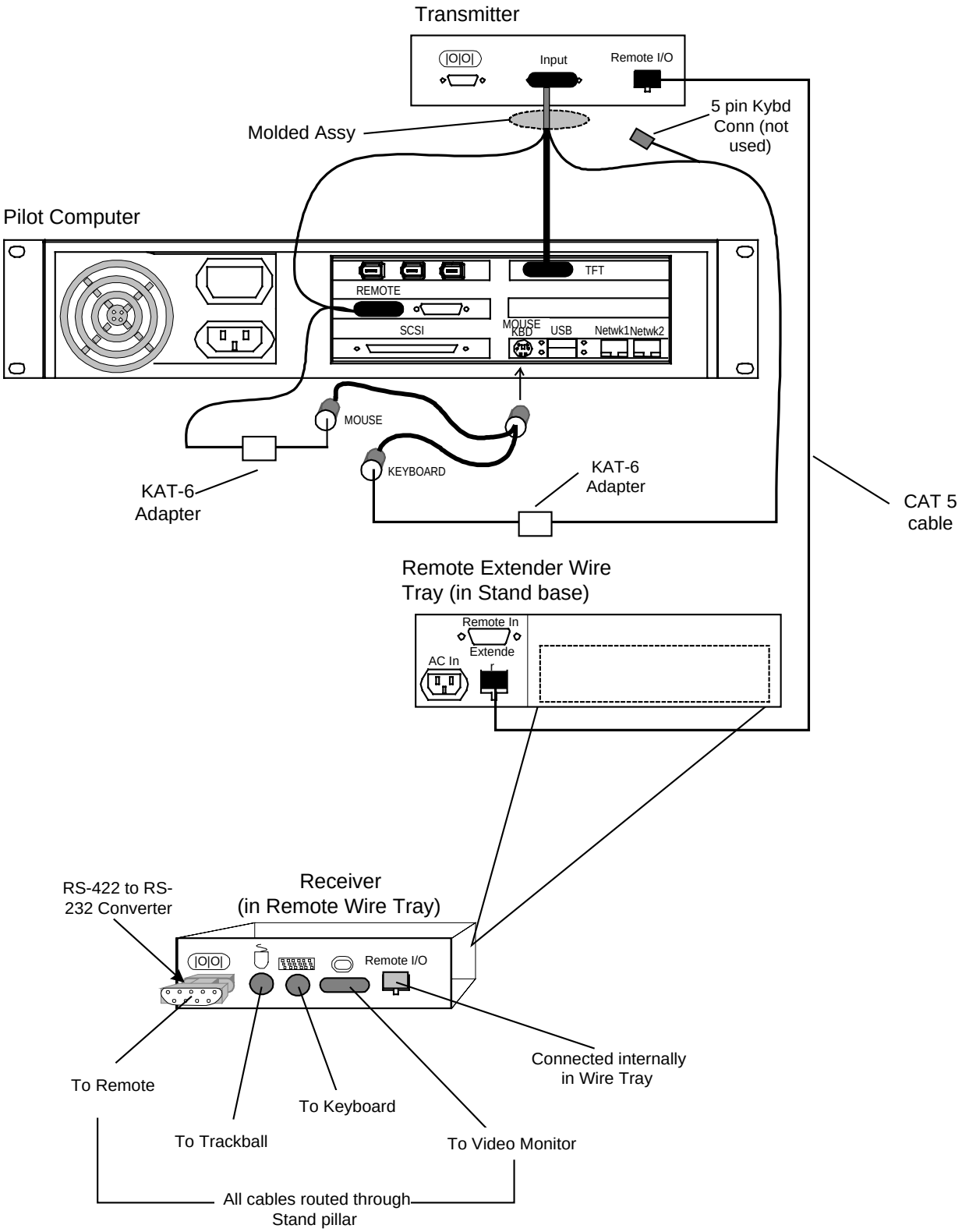
KVM Extender Hookup Diagram



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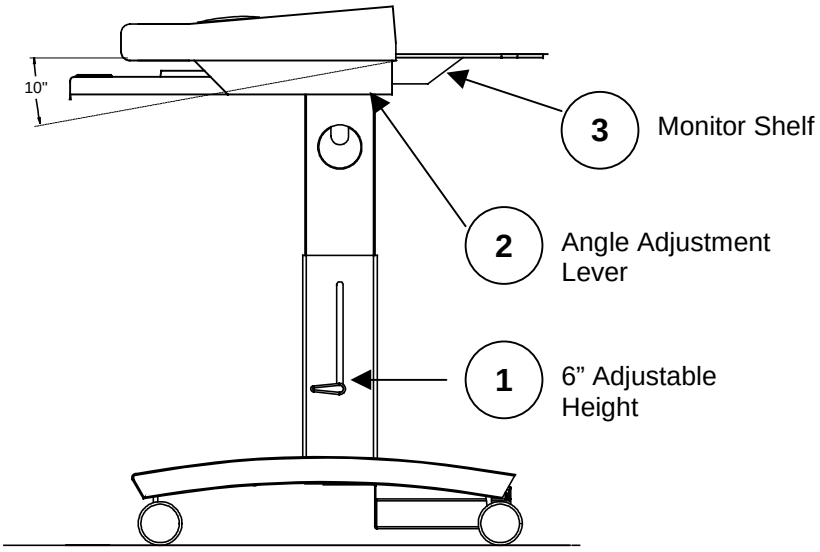
Stand Height and Angle Adjustments

The Remote Stand features 2 height and 1 angle adjustments, allowing comfortable positioning of the Remote worksurface.

1) The upper section of the Remote has six inches of vertical adjustment. This places the worksurface from 30.7" to 36.7" above ground.
   - Loosen the lever on the side of the Remote pillar to raise or lower the entire upper section. Pneumatic assist is provided to ease the raising of the upper section.
   - Tighten the lever to keep this height adjustment.
2) The angle of the Remote head is adjustable through a sweep of 10%, down from horizontal.
   - Loosen the lever at the top of the Remote pillar to adjust the angle of the Remote head.
   - Tighten the lever to keep this angle adjustment.
3) The monitor shelf Is designed to carry a 15" TFT style video monitor. The shelf is attached to the back of the Remote pillar on a mounting bracket with two screws. Six screw holes are provided, allowing for 4 mounting positions in a range of 3" vertical.
   - Use the included Velcro strips to attach the monitor to the monitor shelf.



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Power On Sequence

The Remote can be powered up at any time during the R-1 power on sequence. All the keys will flash briefly. The Remote Display will read 'Waiting for Pilot' until the R-1 software application is started. The software version number will show briefly in the Remote Display. The Remote can also be powered on at any time after the R-1 application software is booted.

Special Setup Precaution

Care should be taken that all connections at the Remote wire tray and the Pilot computer are secure. Once the cable has been attached, complete the connection by tightening the securing screws on the cable connector or terminator, or use strain reliefs where applicable. Particularly in a stand mounted Remote installation where the Remote will be moved frequently, it is important that connections at the wire tray are secured to prevent accidental dislodging.

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